(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 19 May 2005 (19.05.2005)

PCT

(10) International Publication Number WO 2005/045046 A1

(51) International Patent Classification7: A01H 5/00

C12N 15/82,

(21) International Application Number:

PCT/IB2004/003726

(22) International Filing Date:

4 November 2004 (04.11.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/517,584 0406296.4

5 November 2003 (05.11.2003) US 19 March 2004 (19.03.2004)

- (71) Applicant (for all designated States except US): SWE-TREE TECHNOLOGIES AB [SE/SE]; PO Box 7981, S-SE-90719 Umea (SE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SAMUELSSON, Goran [SE/SE]; Bjorkvagen 29, S-907 38 Umea (SE). VILLAREJO, Arsenio [ES/SE]; Fysikgrand 33, S-907 31 Umea (SE). BUREN, Stefan [SE/SE]; Istidsgaten 44, S-906 55 Umea (SE). DEJARDIN, Annabelli [FR/FR]; 183 rue de Sauvgon, F-45 560 ST-Denis-En-Val (FR). KARLSSON, Jan [SE/SE]; Barnstensvagen 63, S-907 41 Umea (SE).

- (74) Agents: SUTCLIFFE, Nicholas et al.; Mewburn Ellis LLP, York House, 23 Kingsway, London Greater London WC2B 6HP (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: EXPRESSION OF PLASTID-TARGETED POLYPEPTIDES IN PLANTS

(57) Abstract: Abstract Expression of Plastid-Targeted Polypeptides in Plants This invention relates to the expression of plastidtargeted polypeptides in plants, in particular to the expression of polypeptides which are glycosylated during transit to the plant plastid, such as Arabidopsis thaliana CAH1. Suitable polypeptides may be expressed from encoding nucleic acid that comprises an ER signal sequence and one or more ER-plastid targeting sequences. Methods and means relating to the expression of such plastid-targeted polypeptides are provided.